



EMPOWERING PROCESS MANAGEMENT

An ISO 9001:2015 Company



Nx Series Universal Process Controllers



ELTEC CABLES & INSTRUMENTS

16, Bhaktinagar Station Plot, Rajkot-360 002, INDIA.

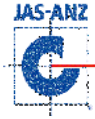
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Features

- Universal sensor input (All Thermocouple, RTD and Linear Input)
- Provision for Transmitter Supply
- Programmable Single Step Ramp and Soak function
- In-built Overshoot Control Protection Algorithm

Specifications

DESCRIPTION		Nx-X81	Nx-X82	Nx-X83
Display	Type	7 Segment LED (White Display for PV and Pure Green Display for SV)		
	No. of Digits	4 Digits Dual Row		
	LED Indication	Output Status Tune Status	Output Status Tune Status Soak Time Status	Output Status Tune Status RTX Status Soak Time Status

INPUT SPECIFICATION

Measurement	Input	T/C : J, K, R, S, N, T, B RTD : Pt-100 Analog : 0-1 VDC, 0-3.3 VDC, 0-5 VDC, 0-10 VDC, 0-20 mA, 4-20 mA
	Accuracy	0.3% FS
	Resolution	T/C : 1 °C Pt-100 : 1 °C/ 0.1 °C Analog : 1 / 0.1 / 0.01 / 0.001 EU

OUTPUT SPECIFICATION

Set Point	No. of Set Point	1	2	3
Output	Relay	5A @ 250VAC/ 30VDC		
	SSR Drive	12 VDC @ 30mA		
	mA (4~20/0~20)	N.A		500Ω Max.
	Volt (0-10)	N.A		1 KΩ Max.
Output 1	Relay / SSR	User Selectable		Factory Set
	mA / Volt	N.A		Factory Set
Output 2	Relay / SSR	N.A	Factory Set	Factory Set
Output 3	Relay / SSR	N.A	N.A	Factory Set

FUNCTIONAL SPECIFICATION

Control Parameter	Action	PID or ON/OFF		
	Hysteresis	0.1 to 100.0 °C/ 1 to 100 °C		
	Delay	0 to 500 Sec		
	P, I & D Values	User Programmable		
	Output Power	0 to 100 %		
	Cycle Time	1.0 to 100.0 Sec		
Output 2 / 3 Function	Aux. Control	N.A	Absolute/ Deviation	
	Alarm	N.A	Low/ High/ Low Deviation/ High Deviation/ Band	
	Soak Timer	N.A	0.01 Sec to 9999 Hrs (with backup function)	
Transmitter Supply	5 VDC/ 10 VDC/ 12 VDC/ 24 VDC			

GENERAL SPECIFICATION

Supply Voltage	90 - 270 VAC/ DC (24 VDC Available on Request)								
Temperature And Humidity	Operating : 0 - 50°C Storage : -20° to 75°C 95 % RH (Non-condensing)								
Dimensions in mm (H x W x D)	Model No.	Display Height		Model No.	Display Height		Model No.	Display Height	
		PV	SV		PV	SV		PV	SV
48 x 48 x 87	Nx-481	0.36"	0.36"	Nx-482	0.36"	0.36"	Nx-483	0.36"	0.36"
72 x 72 x 82	Nx-781	0.56"	0.39"	Nx-782	0.56"	0.39"	Nx-783	0.56"	0.39"
96 x 96 x 80	Nx-981	0.80"	0.56"	Nx-982	0.80"	0.56"	Nx-983	0.80"	0.56"

I-THERM ORDER CODE GUIDE :

Nx	X	X	X	X	X	X	X
Nx -XXX-X-X-X-X	SIZE	DISPLAY	NO. OF O/P	OP1 TYPE *	OP2 TYPE *	OP3 TYPE *	SUPPLY
4 ---->>	48 x 48	8 >> 4 Digits x 2 Row	1 #	R ---->> Relay	R ---->> Relay	R ---->> Relay	A -->> 230 VAC
7 ---->>	72 x 72		2 #	S ---->> SSR	S ---->> SSR	S ---->> SSR	B -->> 24 VDC
9 ---->>	96 x 96		3	C ---->> Current	N ---->> None	N ---->> None	

* Not applicable for Single Setpoint Controllers # Output Type User Selectable B/W Relay and SSR



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